

CLAIMS:

1. A manufacturing method for a gas discharge type display panel in which a couple of substrates are arranged to be facing to each other, a surrounding area of said substrate is sealed by a sealing glass, and an inside space is used as a discharge space by sealing a discharge gas in an internal space,

5 wherein

by exhausting said inside space when sealing, a sealing glass is made broken down and a clearance gap between said substrates is controlled to be as desired.

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2. A manufacturing method for a gas discharge type display panel in Claim 1,

wherein

an amorphous glass or an amorphous glass including a filler are used for sealing a substrate.

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3. A manufacturing method for a gas discharge type display panel in Claim 1,

wherein

a supply and exhaust pipe is formed on an outside surface of said substrate by using a glass material having a heat resistance higher than said substrate sealing glass.

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4. A manufacturing method for a gas discharge type display panel in which a couple of substrates are arranged to be facing to each other, a surrounding area of said substrate is sealed by a sealing glass, and an inside space is used as a discharge space by sealing a discharge gas in an internal space,

25 wherein

a gas unnecessary for an discharge operation is exhausted from said inside space (if) a state of said amorphous sealing glass is located in a temperature range exceeding its softening point and no more than its working point.

5. A manufacturing method for a gas discharge type display panel in which a couple of substrates are arranged to be facing to each other, a surrounding area of said substrate is sealed by a sealing glass, and an inside space is used as a discharge space by sealing a

5 discharge gas in an internal space,

wherein

said couple of substrates are sealed at least doubly by sealing glasses each having an individual softening point different from each other.

10 6. A manufacturing method for a gas discharge type display panel in which a couple of substrates are arranged to be facing to each other, a surrounding area of said substrate is sealed by a sealing glass, and an inside space is used as a discharge space by sealing a discharge gas in an internal space,

wherein

15 a protruding portion having a curvature radius between 0.1 mm and 1mm is formed on an overall periphery of said sealing glass at its inside space.

20 7. A manufacturing method for a gas discharge type display panel in which a couple of substrates are arranged to be facing to each other, a surrounding area of said substrate is sealed by a sealing glass, and an inside space is used as a discharge space by sealing a discharge gas in an internal space,

wherein

25 at least at one portion of a surrounding area of said substrate, a cross-section of said sealing glass viewed vertically to a substrate is shaped so as to be convex with respect to an inside space at both its inside space end part and its outside end part.

30 8. A manufacturing method for a gas discharge type display panel in which a couple of substrates are arranged to be facing to each other, a surrounding area of said substrate is sealed by a sealing glass, and an inside space is used as a discharge space by sealing a discharge gas in an internal space,

wherein

at least at one portion of a surrounding area of said substrate, a concentration of
filler at an inside space end part of said sealing glass is larger than that in other portions.

9. A manufacturing method for a gas discharge type display panel in which a couple of
5 substrates are arranged to be facing to each other, a surrounding area of said substrate is
sealed by a sealing glass, and an inside space is used as a discharge space by sealing a
discharge gas in an internal space,

wherein

a glass layer having a heat resistance higher than said sealing glass is formed so
10 as to be adjacent to an inside space end part of said sealing glass or within 2 mm from
an end part.

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